OResults of Radioactive Material Monitoring of Aquatic Organisms (Location H in Lake Akimoto)

<Location H in Lake Akimoto: Samples collected>

Items	Gener	al items	Radioactive materials									
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)						
H-1	0	0	0	0	0	0						

<Location H in Lake Akimoto: Site measurement item>

Items	Items Latitude and longitude of the location			Survey date and time		Water		Sedi		Other		
Locations	Latitude	Longitude	Date Time (water) Time (sediment) Water temperature (degrees C) Sediment temperature (degrees C)		Property Color		Contaminants	Water depth (m) Secchi disk depth				
H-1(Surface layer)	37.6575°	140 12649	2018/10/18	11:36	11:50	17.4	13.1	Ooze	7.5Y 4/2	Plant pieces	11.5	3.5
H-1(Bottom layer)		140.1264°	2018/10/18			14.5						3.3

<Location H in Lake Akimoto: General survey items/Analysis of radioactive materials Water>

Items	Latitude and longitude of the location		Survey date and time		pH	BOD	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
H-1(Surface layer)	37.6575°	140.1264°	2018/10/18	11:36	7.2	2.0	3.2	8.5	4.6	0.03	1.7	<1	1.3	N.D.(0.0015)	0.0075	-
H-1(Bottom layer)	37.0373	140.1204	2018/10/18	11.50	7.0	1.3	3.2	9.6	4.8	0.03	1.6	2	1.8	N.D.(0.0014)	0.0072	0.0014

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Location H in Lake Akimoto: General survey items/Analysis of radioactive materials Sediment>

Items	Latitude and l	Latitude and longitude of the Survey de		ite and time						Grain size distribution											
iciii.	location		Sui vey da	ne and time	pH	Redox potential	Water content	IL.	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (sediment)		E_{NHE}				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter			1
				()		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
H-1	37.6575°	140.1264°	2018/10/18	11:50	6.6	176	63.7	9.7	30.1	2.546	0.0	0.0	0.1	0.1	64.4	35.4	0.0081	2.0	120	1300	1.4

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Location H in Lake Akimoto: Analysis items Aquatic organisms>

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Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight		Note		Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude									(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
H-1		37.6575°	140.1264° 140.1226°		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	5	0.73	Mature fish	-	-	38.6	3.6	35	-
H-1 H-2	In the lake	37.6616°		226° 2018/11/7	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Hemibarbus barbus	Hemibarbus barbus	4	1.6	Immature fish,Mature fi	h Obscure digesta	Viscera removed	36.6	3.6	33	1.2
H-3		37.6653°	140.1329°		Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	Hypomesus nipponensis	Japanese smelt	55	0.27	Mature fish	-	-	12	N.D.(1.4)	12	-
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Salvelinus leucomaenis	Char	5	1.7	Mature fish	Japanese smelt	Viscera removed	33.3	2.3	31	0.36
				2018/10/18	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.011	-	-	-	17	N.D.(13)	17	-
			140.1329°		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	15	0.011	Immature fish	-	-	4.3	N.D.(4.8)	4.3	-
H-3	In the lake and	37.6653°			Vertebrata	Osteichthyes	Perciformes	Centrarchidae	Lepomis macrochirus	Bluegill	4	0.0027	Immature fish	-	-	N.D.	N.D.(7.1)	N.D.(7.8)	-
11-5	Inflowing rivers	37.0033	140.1329		Vertebrata	Osteichthyes	Perciformes	Gobiidae	Gymnogobius urotaenia	Goby	4	0.042	Immature fish	-	-	31	N.D.(3.4)	31	-
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.18	-	-	-	9.4	N.D.(1.7)	9.4	-
	Within the lake			181° 2018/10/18	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.013	-	-	-	7.7	N.D.(2.4)	7.7	-
H-4	and rivers in the vicinity	37.6551°	140.1181°		Arthropoda	Malacostraca	Decapoda	Atyidae	Paratya improvisa	Freshwater shrimp	330	0.062	Juvenile,Imago	-	-	27	N.D.(2.8)	27	-
					Mollusca	Bivalvia	Unionoida	Unionidae	Cristaria plicata	Cristaria plicata	3	0.86	Imago	-	Molluscous part	6.6	N.D.(1.5)	6.6	-

*1: Organisms were collected in or around the targeted water areas.

^{*2:} When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

^{*3:} For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

^{*4:} Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

^{*5:} Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

^{*6:} River bottom materials (incl. algue) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

^{*7:} N.D. means to be below the detection limit and figures in parentheses show the detection limit.

^{*8:} Activity concentrations include counting errors, but the details are omitted here.